## INTERNATIONAL SEARCH REPORT

laternational Application No.

**PCT/JP 03/16057** A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B20/18 G11B20/12 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category \* 1-4,6,7, WO 2004/034396 A (SAMSUNG ELECTRONICS CO LTD) 22 April 2004 (2004-04-22) 10, 16-19, 21, 23-26, 28-31, 33,35-38 page 2, line 28 - page 3, line 4 page 3, line 22 - page 4, line 17 page 10, line 11 - line 28 page 12, line 3 - line 10 page 12, line 23 - page 14, line 6 page 14, line 23 - line 29 page 17, line 1 - line 25 page 18, line 13 - line 20 page 21, line 27 - line 29 figures 4a-4d Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: \*T\* later document published after the International filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to Involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-\*O\* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled olher means in the art. document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of mailing of the international search report Date of the actual completion of the International search 30/07/2004 21 July 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Ogor, M

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T/JP 03/16057

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Information on patent family members

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TT/JP 03/16057

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